NAME	Dr. Smriti Shrivastava	
DESIGNATION	Assistant Professor	
EMAIL ID	sshrivastava1@amity.edu	
RESEARCH INTERESTS	Applied Microbiology, Enzyme Technology and Bio-energy	

EDUCATIONAL QUALIFICATIONS:

Name of College / University	Degree	Year
Birla Institute of Technology, Mesra	Ph.D.	2011
University of Madras, Chennai	M.Sc	2005
Ranchi University, Ranchi	B.Sc	2003

Title of Ph.D. thesis : "Thermozyme: Purification and characterization of high level cellulase-free xylanase from the thermophilic fungi with special reference to *Thermomyces lanuginosus*"

EXPERIENCE (in chronological order)

Designation	Type of post held (teaching/ research)	Name of the Institute	Year (From – To)
Assistant Professor	Teaching and Research	Amity Institute of Biotechnology, Amity University Uttar Pradesh, Noida	March 2016 onwards
PI, Fast Track Young Scientist	Research and Teaching	Amity Institute of Microbial Technology, Amity University Uttar Pradesh, Noida	January 2013 – January 2016
Visiting Faculty	Teaching	Amity Institute of Microbial Technology, Amity University Uttar Pradesh, Noida	February 2012 – December 2012
Guest Faculty	Teaching	School of Biotechnology, Gautam Buddha University, Great Noida	August 2011- December 2011
Assistant Professor	Teaching and Research	Department of Biotechnology and Bio-informatics, PDDYP University, Navi Mumbai	October 2010 – July 2011

No. of Ph.D. students supervised	Awarded: (Nil)
	Ongoing: 2
PUBLICATIONS ***(18)***	**1. Shrivastava S**, Kumar V, Mahek B, Shukla P (2016) Enhanced xylanase production from *Thermomyces lanuginosus* NCIM 1374/ DSM 28966 using statistical analysis. Journal of Pure and Applied Microbiology (In Press) [Impact factor: 0.073] **2. Shrivastava S,** Shukla P, Mukhopadhyay K, Ajit Varma (2016) Continuous Elution Electrophoresis as a unique tool for microbial protein analysis**.,** eds. Sharma S and Varma A. Modern tools and Techniques in

Microbiology. Springer Verlag (In Press)

3. Awasthi P, **Shrivastava S**, Amit C Kharkwal AC and Varma A (2015) Biofuel from agricultural waste: A review. International Journal of Current Microbiology and Applied Sciences. Volume 4(1): 470-477 [Impact Factor 2.937]

4. Shrivastava S, D Egamberdieva and A Varma (2015) PGPR and Medicinal plants, State of Art in PGPR and Medicinal Plants, In PGPR and Medicinal Plants, Soil Biology Series, Eds. Egamberdieva Dilfuza, Shrivastava Smriti and Varma Ajit. Springer Verlag, Volume 42, 1-18

5. Shrivastava S, Tetarwal KG, Kharkwal AC, Varma A (2014) Bio-ethanol production by simultaneous saccharification and fermentation using microbial consortium. International Journal of Current Microbiology and Applied Sciences. Volume 3(07):505-511 [Impact Factor 2.937]

6. Shrivastava S, R Prasad and A Varma (2014) Anatomy of root from eyes of a Microbiologists. Root Engineering, Soil Biology Series, Eds. Morte Asun and Varma Ajit. Springer Verlag, Volume 40, 3-22

7. Shrivastava S and Varma A (2014) From *Piriformospora indica* to Rootonic: A Review. African Journal of Microbiology. Vol.8(32), pp. 2984-2992. DOI: 10.5897/AJMR2014.6928 [SNIP Indicator: 0.91, SCImago JR: 022, Google Scholar H5 index: 24] [Impact factor: 0.54]

8. Shrivastava S, P. Shukla, Deepalakshmi P.D., K Mukhopadhyay (2013) Characterization, cloning and functional expression of novel xylanase from *Thermomyces lanuginosus* SS-8 isolated from self-heating plant wreckage material. World Journal of Biotechnology and Microbiology, 29 (12) 2407-2415. DOI 10.1007/s11274-013-1409-y [WIBI-D-13-00582R1] [Impact factor: 1.78]

9. Shrivastava S, P. Shukla, K. Mukhopadhyay (2011) Purification and preliminary characterization of a xylanase from *Thermomyces lanuginosus* strain SS-8. 3Biotech**.** Vol. 1, 255-259. DOI: 10.1007/s13205-011-0032-6.

10. M.V.K Karthik, **Shrivastava S**, P. Shukla (2011) Molecular docking for substrate stabilization in *Thermomyces lanuginosus* 11 xylanases. Online Journal of Bioinformatics Volume 12(1):107-114, [Impact factor: 1.67 by Hartzings]

11. P. Shukla, J. Bhagat and **S. Shrivastava** (2011) Oil cakes as substrates for improved lipase production in solid state fermentation. International Journal of Microbial Research Volume 3(1), pp 71-73. [Index Copernicus Value: 7.25 (2012); 4.20 (2011); NAAS: 3.91 (2014)**]**

12. Shrivastava S, Pratyoosh Shukla, K. Mukhopadhyay and R. Poddar (2009) Study of codon bias perspective of

	fungal xylanase gene by multivariate analysis. Bioinformation, Thompson Gale, USA; 3:10. [Impact factor: 1.106] **13.** **Shrivastava S,** P. shukla and K. Mukhopadhyay (2008) Correlative characterization of changes in hyphal morphology during xylanase production in submerged culture by Thermomyces lanuginosus SS-8. Internet Journal of Microbiology, ISPUB,USA ISSN: 1937-8289: Volume 4 Number 2 **14.** P. Shukla, D. Garai, Md. Zafar, K. Gupta and **S. Shrivastava** (2007) Process Parameters Optimization for Lipase Production by *Rhizopus oryzae* KG-10 under Submerged Fermentation using Response Surface Methodology. Journal of Applied Science in environmental sanitation; Vol: 2, Number 3; 93-103. [Impact factor: 0.67] **15.** **Shrivastava S**, P. Shukla and R.Poddar (2007) In Silico studies for evaluating conservation homology among Family11 xylanases from *Thermomyces lanuginosus.* Journal of Applied Science in environmental sanitation; Vol: 2, Number 3; 70-76. [Impact factor: 0.67] **16.** H.S. Misra, N.P. Khairnair, S. kota, **S. Shrivastava**, V.P. Joshi and S.K. Apte.. (2006) An exonucleaseI sensitive DNA repair pathway in *Deinococcus radiodurans*: a major determinant of radiation resistance. Molecular Microbiology 59 (4), 1308-1316. [Impact factor: 5.6] **17.** **Shrivastava S**, S. Lata and P. Shukla (June, 2012) An insight on recent advances on immobilization, methods for industrial enzymes and its relevance to xylanases. Global Science Publication, Japan, Micro-22-2011 **18.** Shukla P, Garai D, **Shrivastava S** (2009) An overview of statistical optimization method for microbial conversion of environmental samples for lipase production by hyperlipolytic fungi *Rhizopus oryzae* KG-10. In: Mishra BB (ed) Environmental Microbiology, 1st edn. APH, pp 171-180
Indigenous Organisms submitted to National and International Culture Banks	• *Thermomyces lanuginosus* SS-8 (**NCIM-**1374), Deposited at National center for Industrial Microorganisms. The same culture is accepted at **DSMZ, Germany** (DSM 28966). • *Bacillus altitudinus*, *Lysinibacillus* sp., *Bacillus stratosphericus*, *Paenibacillus* sp. *Bacillus thuringiensis*, *Bacillus altitudinus*, *Bacillus cereus* (Total 14 different organisms). [BAB 4405, BAB 4406, BAB 4407, BAB 4556, BAB 4348, BAB 4557, BAB, 4347, BAB 4349, BAB 4350, BAB 3952, BAB 3953, BAB 3954, BAB 3955, BAB 3956] **(GSBTM, Gujarat, India)**
PATENTS **(*02*)**	***Details:*** 1. Published: **(Application number: 141/KOL/2010)** "Novel ß-1, 4-endoxylanase from *Thermomyces lanuginosus* SS-8 and the mode of action thereof". **S. Shrivastava**, P. Shukla, K. Mukhopadhyay. 2. Filed (**Application Number: 679/DEL/2015**); Ethanol

	production by stepwise saccharification and fermentation using novel isolate *Bacillus altitudinus* BAB 4405 and *Pichia stipitis* NCIM 3497. **Shrivastava S**, Awasthi P, Choudhary S, Agarwal A
RESEARCH PROJECTS Completed: ***(1)*** Ongoing: ***(1 Approved)***	***Details:*** • **Completed:** **Title:** Simultaneous saccharification and fermentation of xylan by genetically modified *Pichia stipitis* heterogously expressing xylanase from *Thermomyces lanuginosus* SS-8 **Funding Agency**: DST • **Ongoing:** **Title:** Unique Enzymatic Consortium of Highly Stable Catalysts for Enhancement of Bio-ethanol Production **Funding Agency:** SERB
AWARDS & HONOURS/ DISTINCTIONS	• CSIR-Senior Research Fellowship, (09/554(0017)/2008 EMR-I) • GATE 2005: 95.6 Percentile • TATA Steel Millennium Scholarship for pursuing, M.Sc Applied Microbiology • DST Young Scientist
MEMBERSHIP with Professional/ Academic bodies	• Life Member of Association of Microbiologists of India • Life Member of Indian Science Congress • Life Member of The Biotech Research Society, India
REVIEWER TO JOURNALS	• BMC Microbiology • African Journal of Microbiology • American Journal of Research Communication • Journal of Harmonized research in Applied Science • Molecular Plant Breeding